

FIG. 6

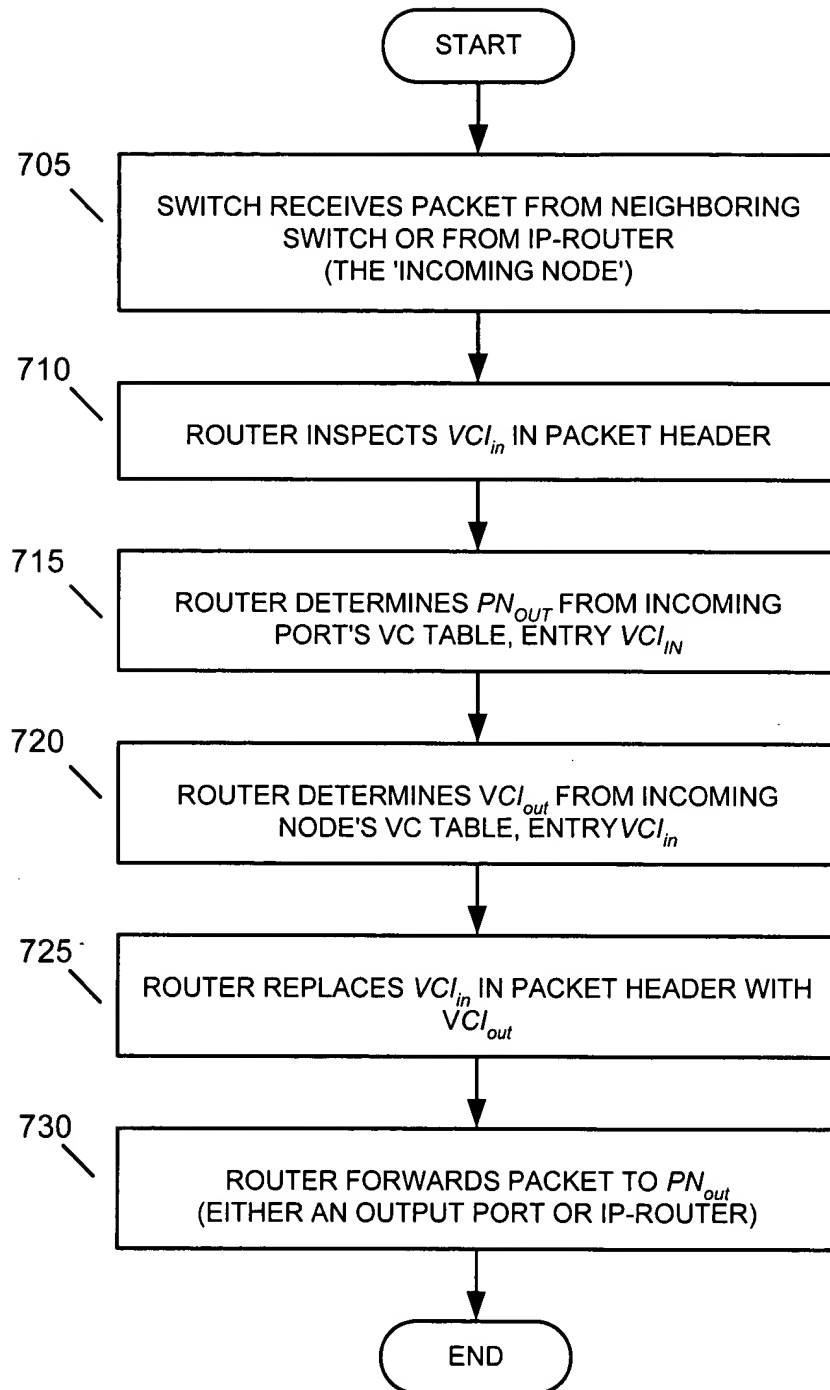


FIG. 7

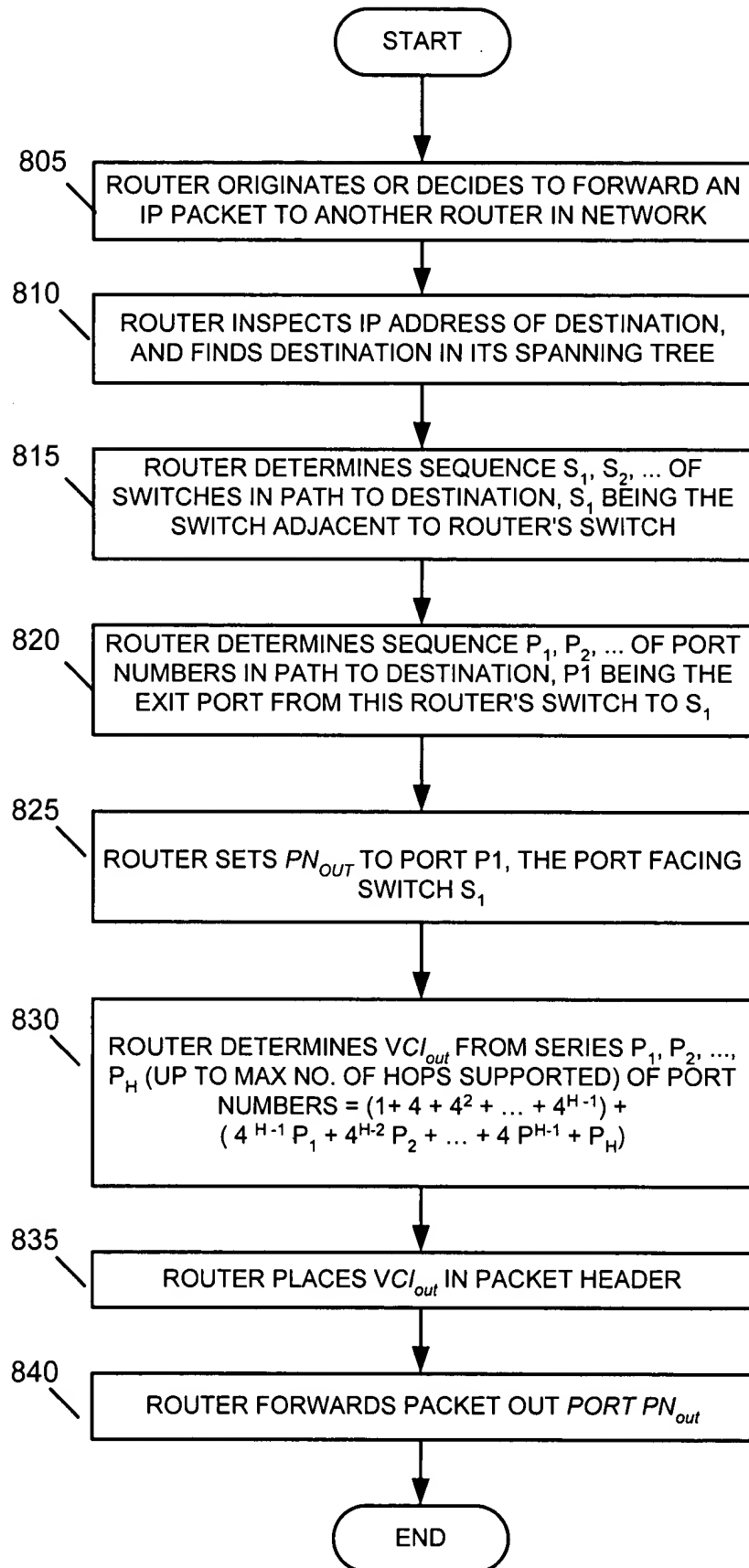


FIG. 8

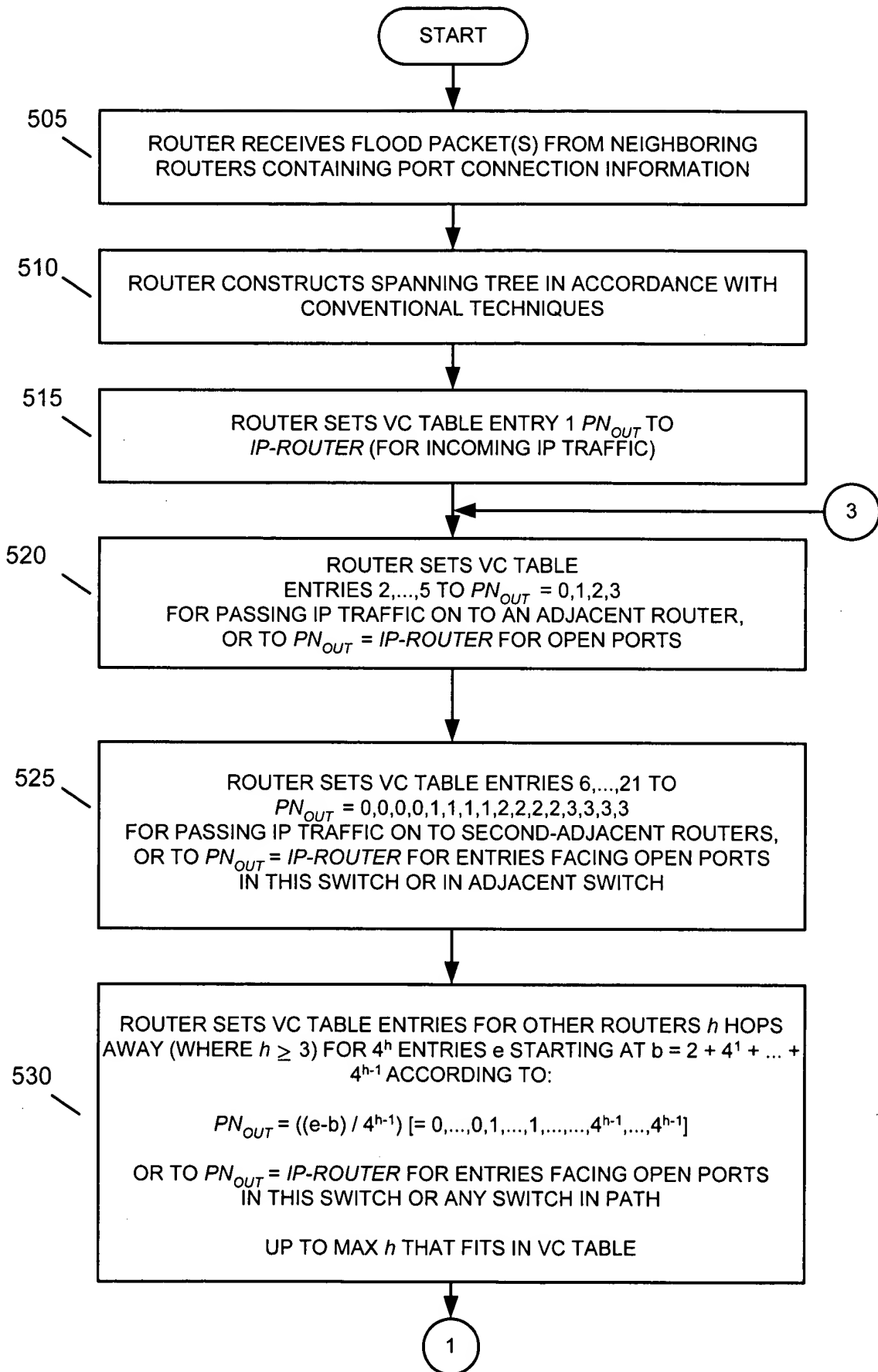


FIG. 5

400

ROUTER# 405		ROUTER_B		
SEQ. # 410		SEQ_NUM		
NO. OF PORTS 415		VC BASE ENTRY NO. 420		MAX NO. OF HOPS SUPPORTED 425
LINKS 430	TO A	TO G	TO D	OPEN
METRICS 435	M_1	M_2	M_3	--
PORT NUMBER 440	0	1	2	3

FIG. 4

VC TABLE 300

VC ENTRY 305	SWITCH OUTPUT PORT (PN_{OUT}) 310	VCI_{out} 315	VIRTUAL CIRCUIT LENGTH
1	IP ROUTER	1	0 HOPS -> IP
2	Port 0	1	1 HOP -- PN_0 -> IP
3	Port 1	1	1 HOP -- PN_1 -> IP
4	Port 2	1	1 HOP -- PN_2 -> IP
5	Port 3	1	1 HOP -- PN_3 -> IP
6	Port 0	2	2 HOPS -- PN_0 -> PN_0 -> IP
7	Port 0	3	2 HOPS -- PN_0 -> PN_1 -> IP
8	Port 0	4	2 HOPS -- PN_0 -> PN_2 -> IP
9	Port 0	5	2 HOPS -- PN_0 -> PN_3 -> IP
10	Port 1	2	2 HOPS -- PN_1 -> PN_0 -> IP
11	Port 1	3	2 HOPS -- PN_1 -> PN_1 -> IP
12	Port 1	4	2 HOPS -- PN_1 -> PN_2 -> IP
13	Port 1	5	2 HOPS -- PN_1 -> PN_3 -> IP
14	Port 2	2	2 HOPS -- PN_2 -> PN_0 -> IP
15	Port 2	3	2 HOPS -- PN_2 -> PN_1 -> IP
16	Port 2	4	2 HOPS -- PN_2 -> PN_2 -> IP
17	Port 2	5	2 HOPS -- PN_2 -> PN_3 -> IP
18	Port 3	2	2 HOPS -- PN_3 -> PN_0 -> IP
19	Port 3	3	2 HOPS -- PN_3 -> PN_1 -> IP
20	Port 3	4	2 HOPS -- PN_3 -> PN_2 -> IP
21	Port 3	5	2 HOPS -- PN_3 -> PN_3 -> IP

FIG. 3

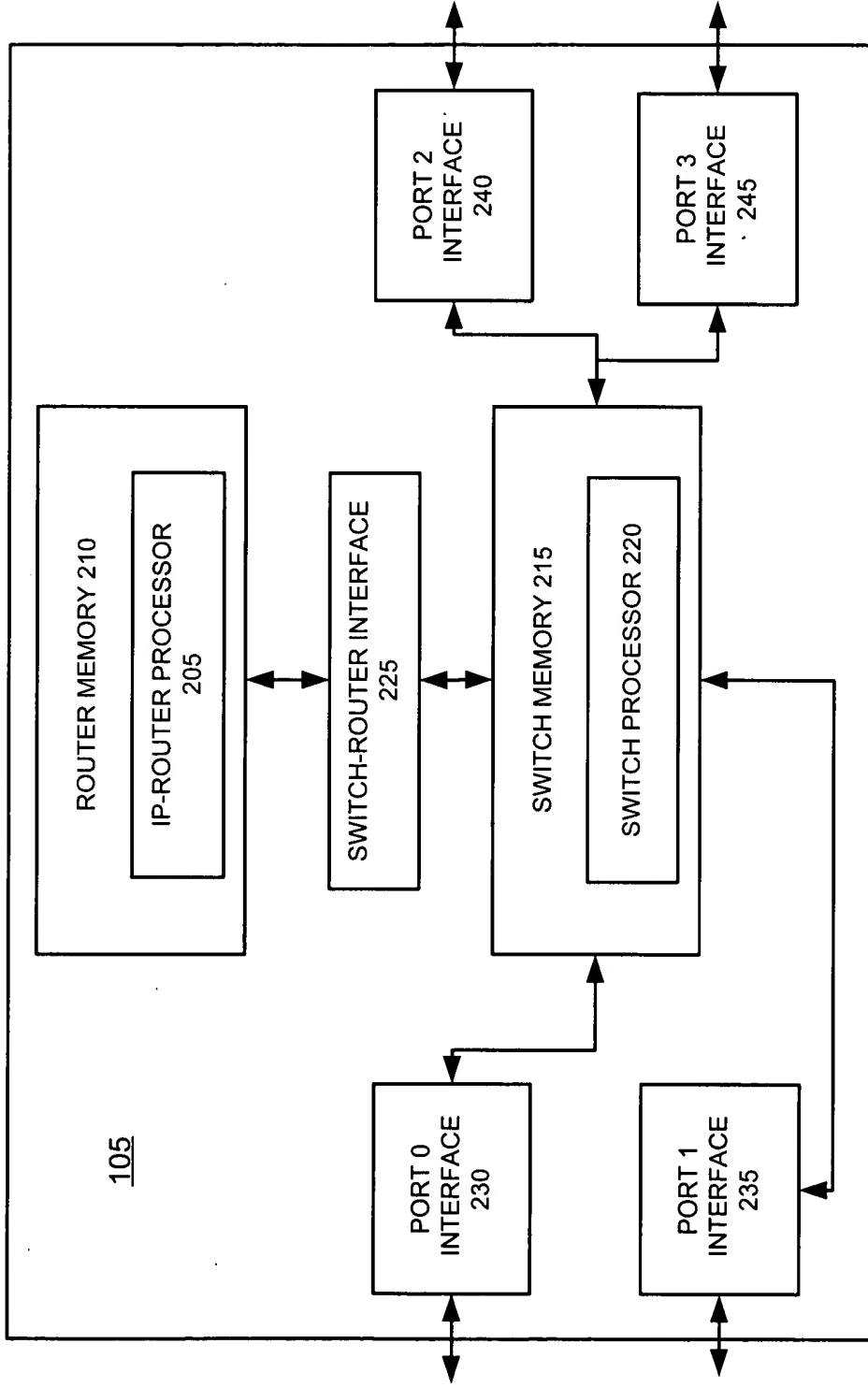


FIG. 2

FIG. 1 is a schematic diagram of a network 100. The network consists of nine nodes, labeled A through I, each represented by a circle containing a letter and a number. The nodes are interconnected by lines representing connections, with each connection labeled with a port name. The connections are as follows:

- Node A (105) is connected to Node B (110) via PORT 0 (on A) and PORT 2 (on B).
- Node A (105) is connected to Node C (115) via PORT 1 (on A) and PORT 2 (on C).
- Node B (110) is connected to Node D (120) via PORT 1 (on B) and PORT 0 (on D).
- Node C (115) is connected to Node E (125) via PORT 1 (on C) and PORT 0 (on E).
- Node D (120) is connected to Node F (130) via PORT 2 (on D) and PORT 0 (on F).
- Node E (125) is connected to Node F (130) via PORT 2 (on E) and PORT 3 (on F).
- Node F (130) is connected to Node H (140) via PORT 1 (on F) and PORT 0 (on H).
- Node G (135) is connected to Node I (145) via PORT 0 (on G) and PORT 1 (on I).
- Node H (140) is connected to Node I (145) via PORT 1 (on H) and PORT 0 (on I).

Each node also has one or more additional ports that are not connected to any other node in the network:

- Node A (105) has PORT 2 and PORT 3.
- Node B (110) has PORT 2.
- Node C (115) has PORT 0.
- Node D (120) has PORT 2.
- Node E (125) has PORT 3.
- Node F (130) has PORT 2.
- Node G (135) has PORT 2.
- Node H (140) has PORT 2.
- Node I (145) has PORT 3.